



All that Glitters: Fusing Gold and Other Metals to Steel

Live online class with guest artist Bette Barnett

October 16-18, 2020

The following is a list of required tools & materials students need to be successful in this online class:

- Torch- dual gas torch like acetylene/air, oxygen/propane, or oxygen/acetylene will be needed. (Please note that small butane, propane and MAPP torches do not produce enough heat.)
- Soldering pads or charcoal blocks
- Solder pick
- Tweezers
- Third hand or other tools to help with soldering operations
- Two firebricks or something similar to support metal while heating from below
- Pickle pot—non-ferrous metals (silver, copper, gold, etc.) should not be mixed in the same pickle pot as ferrous (or mixed metals with ferrous) metals
- Pickle pot tongs—either steel, plastic or wood (**not copper**)
- Pumice cleaner, Bon-Ami or any “gritty” pumice cleaner will do, even household cleanser
- Rust remover—white vinegar or Whink Rust Stain Remover (available from Amazon)
- Gun bluing—for example, Perma Blue from Birchwood Casey (local gun supply shop or Amazon) or Oxpho Blue from Brownells
- Basic hand tools: - Jeweler saw and 2/0, 3/0, 4/0 blades - Flush cutters - Pliers (chain nose, round, etc.) - Ruler - Scribe - Files- flat and ½ round file (note that mild steel will not damage files)- Hammers—mallet (rawhide or Delrin), whatever you like to use for forming - Digital calipers 3
- Optivisor or other wearable magnifiers if you find them helpful
- Easy silver solder (optional: small amount of easy gold solder, any karat)
- Lubricant (Burlife or bees wax)

****Optional but helpful:**

- Flexshaft and the burs or wheels that you like to use (3M radial disc wheels are particularly good for steel).
- Patina for steel—Presto Black PC9 from Sculpt Nouveau, Japanese Brown patina from Sculpt Nouveau
- If you want to fuse gold on steel (and who doesn't?), you'll need to purchase a small amount of gold (1"x1" square of 30 gauge in 14k or higher).
- Rolling mill—this will be used for thinning your sheet of gold (if you choose to work with gold). If you do not have a rolling mill, the gold can be forged to the proper thickness.

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